

**American Recovery and Reinvestment Act  
Epidemiology and Laboratory Capacity for Infectious Diseases (ELC)  
INFRASTRUCTURE AND INTEROPERABILITY SUPPORT FOR PUBLIC  
HEALTH LABORATORIES**

**Massachusetts Department of Public Health Budget Request**

**A. Personnel: \$132,000**

Program Coordinator III - new position      1.0 FTE      22 months      \$132,000  
This individual will provide programmatic support and subject matter expertise for ELR efforts, electronic medical record reporting and PHIN-MS implementation for the Bureau of Infectious Diseases. This will involve validation of mapping of local codes to LOINC and SNOMEDs, assessment of reporting and certification, and validation of PHIN-MS messaging content. In addition, the individual will manage on-going communications and provide quality control support to providers (clinical and commercial laboratories, community health centers, hospitals and other health care providers) sending the data as well as quality assurance once the data have been received by MAEDSS. Further, this individual will oversee communications with CDC regarding PHIN-MS implementation.

**B. Fringe Benefits: \$46,332**

The fringe benefit rate is 25.81% of salaries and wages for the above-listed positions, Plus Universal Health chargeback of \$17/person/year and payroll chargeback of \$75/person/year.

**C. Consultant: \$0**

**D. Equipment: \$0**

**E. Supplies: \$0**

**F. Contractual: \$856,500**

**I.** Contractor will provide technical support for data transfer between Massachusetts Bureau of Infectious Diseases and Centers for Disease Control and Prevention \$360,000

*Name of Contractor:* Contractor will be chosen from a list of contractors that provide services as outlined in scope of service. The list of contractors is compiled by the Massachusetts Operational Service Center after an extensive competitive procurement, background checks and establishment of quality, and pricing agreements

*Method of Selection:* This contract was/will be competitively procured in accordance with Massachusetts Law, 801 CMR 21.

*Period of Performance:* July 1, 2010 – June 30, 2012 (24 months)

*Scope of work:* The contractor will provide technical support and subject matter expertise for ELR, electronic medical record reporting, HL7 support, and guide PHIN-MS implementation efforts to send data from the BID to CDC. Further, this contractor will oversee all technical aspects of messaging between the electronic data reporting infrastructure and MAEDSS.

*Method of Accountability:* The contractor will report to the Division/Director for Informatics for the Massachusetts Department of Public Health.

*Budget:* \$360,000 (approximately \$15,000 monthly = \$94.00 hourly)



2. Project Management for electronic laboratory and health record reporting  
\$140,000

*Name of Contractor:* Contractor will be chosen from a list a contractors that Provide services as outline in scope of service. The list of contractors is complied by the Massachusetts Operational Service Center after an extensive competitive procurement, background checks and establishment of quality, and pricing agreements

*Method of Selection:* This contract was/will be competitively procured in accordance with Massachusetts Law, 801 CMR 21.

*Period of Performance:* July 1, 2010 – June 30, 2012 (24 months)

*Scope of work:* Contractor will provide continued project management for the implementation of the electronic laboratory reporting project with the remaining clinical and commercial laboratories and the State Laboratory Institute.

Currently, 32 of 76 clinical hospitals and 1 commercial laboratory were reporting via ELR. Contractor will also provide project management for the implementation of electronic messaging between EMRs and MAEDSS.

*Method of Accountability:* The contractor will report to the Division/Director for Informatics for the Massachusetts Department of Public Health.

*Budget:* \$140,000 (approximately \$5,833 monthly = \$37.00 hourly)



3. Enhance ELR systems by allowing E-Orders and retrieval of testing results  
\$42,000

*Name of Contractor:* Contractor will be chosen from a list a contractors that Provide services as outline in scope of service. The list of contractors is complied by the Massachusetts Operational Service Center after an extensive competitive procurement, background checks and establishment of quality, and pricing agreements

*Method of Selection:* This contract was/will be competitively procured in accordance with Massachusetts Law, 801 CMR 21.

*Period of Performance:* July 1, 2010 – February 28, 2011 (8 months)

*Scope of work:* Contractor will enhance the existing Lab ELR system to allow existing ELR providers the ability to submit electronic orders (e-orders) and retrieve electronic results in HL7 format for all clinical testing conducted by MPHIL. This work will be completed within the first 8 months of the grant period.

*Method of Accountability:* The contractor will report to the Division/Director for Informatics for the Massachusetts Department of Public Health.

*Budget:* \$42,000 E-Orders for all SLI Laboratories

*Portal and order web service \$10,000*

*Lab request batches \$6,000*

*Lab report batches \$8,000*

*Intergration setup and test \$6,000*

*Intergration support \$12,000*



#### 4. Hospital Implementation of E-Orders \$20,000

*Name of Contractor:* Contractor will be chosen from a list a contractors that Provide services as outline in scope of service. The list of contractors is complied by the Massachusetts Operational Service Center after an extensive competitive procurement, background checks and establishment of quality, and pricing agreements

*Method of Selection:* This contract was/will be competitively procured in accordance with Massachusetts Law, 801 CMR 21.

*Period of Performance:* July 1, 2010 – February 28, 2011 (8 months)

*Scope of work:* Contractor will also work with MPHIL and two funded hospitals to implement HL7 e-orders and e-results between MPHIL and the hospital LIMS. The cost for each funded hospital site deployment is \$10,000. This includes development of messaging structure, testing and deployment services for each selected site. This work will begin 8 months after the grant period begins. MPHIL plans to interface with two large funded hospital sites that submit a large volume of samples to MPHIL for testing.

*Method of Accountability:* The contractor will report to the Division/Director for Informatics for the Massachusetts Department of Public Health.

*Budget:* \$20,000 (\$10,000 per hospital)



#### 5. Childhood Lead Screening Lab ELR Interfacing and Reporting \$36,000

*Name of Contractor:* Contractor will be chosen from a list a contractors that Provide services as outline in scope of service. The list of contractors is complied by the Massachusetts Operational Service Center after an extensive competitive procurement, background checks and establishment of quality, and pricing agreements

*Method of Selection:* This contract was/will be competitively procured in accordance with Massachusetts Law, 801 CMR 21.

*Period of Performance:* July 1, 2010 – August 30, 2011 (14 months)

*Scope of work:* Contractor will create PRM message for the Childhood Lead Screening Laboratory (CLSL) to allow link the LIMS with the ELR system and the MPH master provider/submitter table. The message format used for this is General Provider Message (PRM), an XML message. Contractor will also update the Lab for CCLS providers to electronically check on the status of lead test results and print copies of lead test results on line. This work will be completed 14 months after the grant begins.

*Method of Accountability:* The contractor will report to the Division/Director for Informatics for the Massachusetts Department of Public Health.

*Budget:* \$36,000

*Provider Site (PRM) \$6,000,  
Lab Admin Site \$6,000,  
Lab Requests \$6,000  
Lab Reports \$12,000  
Integration Setup and Test \$6,000*



#### 6. IT project management LIMS support services \$268,500

*Name of Contractor:* Contractor will be chosen from a list of contractors that provide services as outlined in scope of service. The list of contractors is compiled by the Massachusetts Operational Service Center after an extensive competitive procurement, background checks and establishment of quality, and pricing agreements

*Method of Selection:* This contract was/will be competitively procured in accordance with Massachusetts Law, 801 CMR 21.

*Period of Performance:* July 1, 2010 – June 30, 2012 (24 months)

*Scope of work:* Contractor will provide IT project management LIMS support services. This includes the coordination of a detailed work plan, a project plan, WBS and status reports for the implementation of the Viral Serology, Reference Bacteriology and CCLS components into the LIMS, including required ELR and Rhapsody interfacing and messaging for each new LIMS component. Specific application development activities include the implementation of HL7 messaging, deployment of the WebLogic JMS Bridge, which allows PHIN compliant communication between the SLIS Laboratory Information Management System (LIMS) and ELR, development of detailed specifications for the SLIS Viral Serology, CCLS and Reference Bacteriology LIMS modules. VT Regina will also provide HL7 SME services, including the identification of data elements needed for accepting electronic orders and reports, coordinating participation with PHLIP vocabulary standards for other reportable conditions beyond Influenza and assisting in the review of all proposed HL7 and MDPH ORM message structures changes. The Reference Bacteriology, Viral Serology and Childhood Lead Screening Laboratory (CCLS) LIMS components will be deployed within the first

12 months in the grant period. This includes submitting reportable laboratory results to the BID and other public health agencies using HL7 and LOINC and SNOMED vocabulary standards. Results transmitted during this period will be in testing to certify the message structure and vocabulary.

*Method of Accountability:* The contractor will report to the Division/Director for Informatics for the Massachusetts Department of Public Health.

*Budget:* \$268,500

Project Management LIMS HL7 SME and Support Services:

-Reference Bacteriology and Viral Serology LIMS Integration  
(\$49,000)

-Childhood Lead Screening Laboratory (\$24,500)

Application programming support to augment existing in-house application support staff

-J2EE and Hibernate Support for Reference Bacteriology- \$63,750

-.NET and SQL for Viral Serology -\$65,625

-.NET and SQL for Childhood Lead Screening Laboratory  
\$65,625

#### **G. Construction: \$0**

#### **H. Other: \$4,400**

Software - \$4,400

Funding is requested for two Rhapsody IDE ComPoint to be used for Childhood Lead Screening Laboratory ELR messaging and interfacing. (Cost \$2,200 ea.)

#### **J. Indirect Costs: \$20,064**

Indirect charges are based upon the current Department of Health and Human Services and Commonwealth of Massachusetts negotiated indirect cost rate of 15.2% of salaries and wages.

#### **K. Total Request \$1,069,296**